

Serial No. 09/784,801
Amdt. dated January 9, 2004
Reply to Office Action of April 8, 2004

Attorney Docket No. PF02049NA

Amendments to the Claims:

1. (Currently Amended) A communication system that provides communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:

~~a resource controller that controls at least one system parameter that impacts the availability of at least one communication resource used to provide the communication services to the plurality of communication devices; and~~

an operator interface configured that interfaces with the resource controller to interactively specify a minimum probability of communication service availability for the plurality of the communication devices, the minimum probability being in the form of a percent availability figure to the resource controller using the operator interface; and

a resource controller configured to receive the minimum probability from the operator interface, change at least one system parameter based on the minimum probability, and adjust availability of at least one communication resource used to provide the communication services to the plurality of communication devices according to the changed system parameter

~~wherein the at least one system parameter is changed by the resource controller based on the specified minimum probability and on a preprogrammed algorithm, and a minimum probability is obtained by the resource controller by adjusting the at least one communication resource according to the changed system parameter.~~

Serial No. 09/784,801
Amdt. dated January 9, 2004
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Attorney Docket No. PF02049NA

2. (Previously Presented) The communication system of claim 1, wherein the service availability is modified by changing the at least one system parameter essentially consisting of one of:

a number of communication devices that receive the communication services;

a number of communications devices that receive the communications services in a cell;

a bit rate over an RF channel used to communicate data with the communication devices;

and

a coding algorithm used to communicate information with the plurality of communication devices.

3. (Canceled)

4. (Original) The communication system of claim 1, wherein the resource controller monitors one or more system parameters to interactively modify communication service availability to the plurality of the communication devices.

5. (Original) The communication system of claim 4, wherein a system parameter essentially consists of at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

6. (Original) The communication system of claim 4, wherein the resource controller monitors load on one or more communication resources over a defined period of time to determine how to control the at least one communication resource.

Serial No. 09/784,801
Amdt. dated January 9, 2004
Reply to Office Action of April 8, 2004

Attorney Docket No. PF02049NA

7. (Original) The communication system of claim 4, wherein the resource controller monitors the time that a communication resource is out of service for deriving load distributions, to control the at least one communication resource.

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Serial No. 09/784,801
Amdt. dated January 9, 2004
Rcply to Office Action of April 8, 2004

Attorney Docket No. PF02049NA

8. (Currently Amended) A method for providing communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:
specifying a minimum probability of communication service availability for the plurality of communication devices, the minimum probability being in the form of a percent availability figure;

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~~controlling at least one system parameter that impacts the availability of at least one communication resource used to provide the communication services to the plurality of communication devices;~~

~~interfacing with a resource controller to interactively specify a minimum probability of communication service availability for the plurality of the communication devices to the resource controller using the operator interface;~~

~~changing the at least one system parameter by the resource controller based on the specified minimum probability and on a preprogrammed algorithm; and~~

~~obtaining a minimum probability by the resource controller by adjusting availability of the at least one communication resource used to provide the communication services to the plurality of communication devices according to the changed system parameter.~~

Serial No. 09/784,801
Amdt. dated January 9, 2004
Reply to Office Action of April 8, 2004

Attorney Docket No. PF02049NA

9. (Previously Presented) The method of claim 8, wherein the service availability is modified by changing the at least one system parameter essentially consisting of one of:

a number of communication devices that receive the communication services;

a bit rate over an RF channel used to communicate data with the communication devices;

and

a coding algorithm used to communicate information with the plurality of communication devices.

10. (Canceled)

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11. (Currently Amended) The method of claim 8, wherein the at least one system parameter includes the resource controller monitors one or more system parameters essentially consisting of at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

12. (Currently Amended) The method of claim 11, ~~wherein the resource controller monitors load on one or more communication resources~~ is monitored over a defined period of time.

13. (Currently Amended) The method of claim 12, wherein ~~the resource controller derives load distributions for each communication resource~~ is derived based on a monitored load on a corresponding communication resource.

Serial No. 09/784,801
Amdt. dated January 9, 2004
Reply to Office Action of April 8, 2004

Attorney Docket No. PF02049NA

14. (Currently Amended) The method of claim 13, wherein ~~the resource controller also monitors the~~ time that a communication resource is out of service is monitored for deriving load distributions.

15. (Previously Presented) The method of claim 1, wherein the operator interface is capable of adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.

16. (Previously Presented) The communication system of claim 8, wherein interfacing with the resource controller includes adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.